90-2-1113

ORIGINAL

RECEIVED

DEC 21 1990

Federal Communications Commission
Office of the Secretary

LAW OFFICES

COHN AND MARKS

DEC 21 11 03 AM '90

SUITE 600
1333 NEW HAMPSHIRE AVENUE, N. W.
WASHINGTON, D. C. 20036-1573

TELEPHONE (202) 293-3860
CABLE COMAR-WASHINGTON, D. C.
TELECOPIER (202) 293-4827

(202) 452-4836

December 21, 1990

Ms. Donna R. Searcy
Secretary
Federal Communications Commission
Washington, D.C. 20554

Re: BPED-890530MA

Dear Ms. Searcy

Transmitted herewith, on behalf of Miami University, applicant for a new noncommercial educational FM broadcast station at Reading, Ohio, are the original and two (2) copies of an engineering amendment to the above-referenced application.

Should you have any questions regarding this filing, please contact the undersigned.

Very truly yours

Wayne Coy, Jr.

RECEIVED

DEC 24 1990

FCC MAILROOM

CORRECTIVE AMENDMENT FOR
APPLICATION FOR CONSTRUCTION PERMIT
FILE NO. BPED-890530MA
FOR A NEW NCE FM STATION IN READING, OHIO
BY THE MIAMI UNIVERSITY, OXFORD, OHIO

ITEMS CHANGED BY THIS AMENDMENT:

1. ERP from 1.50 to 1.00 kW for both horizontal and vertical.
2. Antenna Azimuthal Composite Antenna Pattern to Figure 1
3. Antenna Tabular Pattern Data to Table 1
4. Antenna Maximum to Minimum Ratio from 13.32 dB to 14.95 dB
5. 1 mV/m Contour Distances to

0°	7.4 km
45	5.1
90	11.6
135	11.9
180	15.4
225	11.2
270	9.5
315	7.3

6. 1 mV/m Contour Area from 453.8 sq. km. to 350.9 sq. km.

DISCUSSION:

This corrective amendment for the application by The Miami University in Oxford, Ohio for a new Noncommercial Educational FM Broadcast Station in Reading, Ohio under File No. BPED-890530MA provides a minor modification to the proposed Reading antenna pattern and peak effective radiated power to eliminate the possibility of overlaps when the application is evaluated using the Commission's computer-generated contour overlap study. The amendment also adds a slight margin between the proposed Reading contours and the relevant co- and adjacent station contours to allow for differences in computational methods.

The calculations on which this amendment is based derive from the May 1, 1984 30-second point elevation terrain data base produced by the National Geophysical Data Center (NGDC). Since the May 1, 1984 issue corrected several errors in the data base, we

request that the Commission use the May 1, 1984 issue or later if the Commission bases their evaluation on NGDC 30-second data.

Recent discussions with the Commission's engineering staff revealed the potential for some minor disagreements between the Commission's computer-generated contour overlap study and the engineering data prepared by us for the Reading application. These disagreements are believed resolved in this corrective amendment. We have introduced slight modifications in the proposed Reading azimuthal composite antenna pattern and reduced the peak effective radiated power from the originally proposed 1.50 kW to the presently proposed 1.00 kW. In addition, we have restructured the presentation of the required tabular azimuthal antenna pattern data to provide ten critical pattern azimuths (including maxima and minima) in a common table with data specified at ten degree points. We believe these changes bring the resulting Reading contours into compliance with current FCC Rules when evaluated using the Commission's computer-generated contour overlap program and the current 30-second data base. As a result of these changes, the predicted distances to the 1 mV/m contour and the 1 mV/m contour area change as noted above.

The modified proposed pattern relative field is shown graphically in Figure 1. The corresponding tabular data is given in Table 1. In Table 1, in addition to entries provided at ten degree intervals, critical pattern azimuths (including maxima and minima) are included and marked with asterisks. It should be noted that the relative fields specified at 50, 90, 180, 200, and 230 degrees are also critical, but since they are part of the normal ten degree data they are not identified with asterisks. A total of ten critical azimuths are specified, not counting the points at 50, 90, 180, 200, and 230 degrees. Should the Commission desire, the data in Table 1 can be provided at finer intervals up to 0.5 degree.

As noted in the application for construction permit, the critical contours are the WLHS 1 mV/m contour, the WOBO 1 mV/m

contour, the WNKU 1 and 10 mV/m contours, and the WFPL 0.1 mV/m contour. These contours are presented herein in detail.

Table 2 shows that the proposed Reading 100 mV/m contour does not overlap the WLHS 1 mV/m contour. Table 3 shows that the proposed Reading 100 mV/m contour does not overlap the WOBO 1 mV/m contour. Table 4 shows that the proposed Reading 10 mV/m contour does not overlap the WNKU 1 mV/m contour and that the proposed Reading 1 mV/m contour does not overlap the WNKU 10 mV/m contour. Table 5 shows that the proposed Reading 1 mV/m contour does not overlap the WFPL 0.1 mV/m contour. The file number used for each table is given in the title for that particular table.

By incorporating this amended pattern into the Reading application for construction permit, we believe the application by The Miami University meets all the current requirements for antenna directionality, lack of interference to other stations, and lack of interference to the proposed station when evaluated using the Commission's computer-generated contour overlap program. The application continues to demonstrate that the proposed Reading station meets all the current requirements for lack of interference to TV Channel 6 and lack of environmental impact, and complies with current guidelines for human exposure to radiofrequency radiation, since all powers in all pertinent directions are less than contained in the original application.

The terrain data used to make the calculations in Tables 2 through 5 is given in Tables 6 through 10. This data is based on the height of the radiation center above mean sea level (RCAMSL). Radial average elevations are calculated using the May 1, 1984 30-second point elevation terrain data base produced by the National Geophysical Data Center (NGDC). As noted at the beginning of this amendment, it is important that earlier issues of the 30-second NGDC data base not be used to calculate the contour distances.

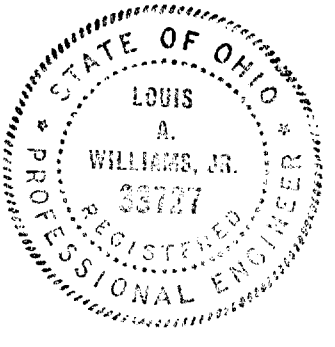
CERTIFICATION

Louis A. Williams, Jr. certifies that he is a consulting engineer doing business since 1970 as Louis A. Williams, Jr. and Associates with offices at 2092 Arrowood Place, Cincinnati, Ohio 45231. He holds a degree of Bachelor of Science in Humanities and Engineering from the Massachusetts Institute of Technology. He is a licensed Professional Engineer in Ohio (#33727) and Kentucky (#7374) and holds a general Radiotelephone license (PG-19-19343).

The foregoing report entitled "Corrective Amendment for Application for Construction Permit File no. BPED-890530MA for a New NCE FM Station in Reading, Ohio by The Miami University, Oxford, Ohio" was prepared by him personally or under his supervision and is true and accurate to the best of his belief and knowledge.

Louis A. Williams, Jr., P.E.

Date: December 18, 1990



Original stamped in purple.

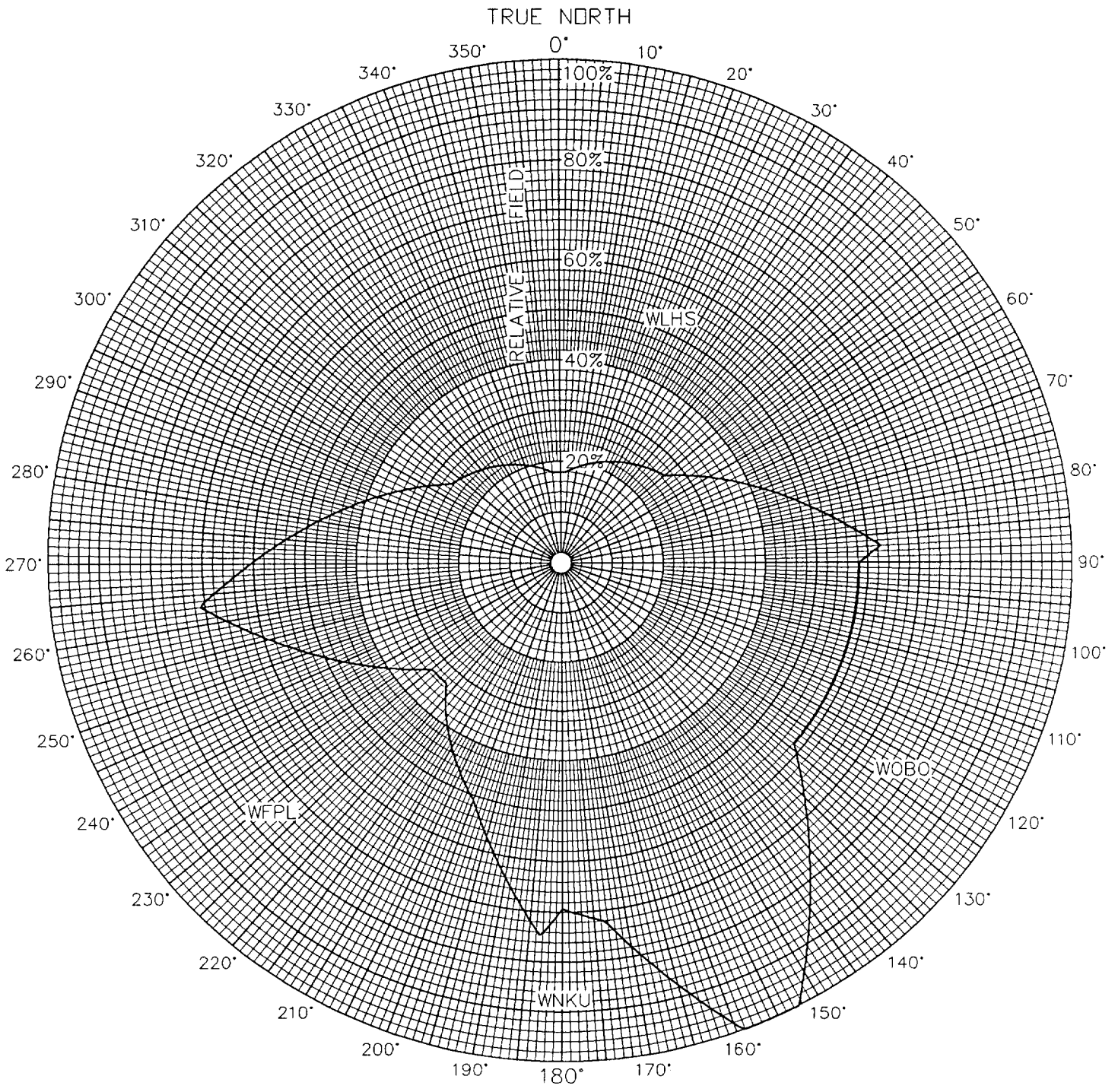


FIGURE 1

MODIFIED PROPOSED READING AZIMUTH PATTERN

Channel 207

Louis A. Williams, Jr. and Associates

December 1990

TABLE 1
MODIFIED PROPOSED READING COMPOSITE ANTENNA PATTERN
WITH A TOTAL OF TEN EXTRA AZIMUTHS
INCLUDING MAXIMA AND MINIMA

	Azimuth (deg.)	Relative Field	Free Space Field (mV/m at 1 mile)	ERP (dBk)
	0	0.1789	25	-14.95
*	3	0.1789	25	-14.95
	10	0.1919	26	-14.34
	20	0.2106	29	-13.53
	30	0.2292	32	-12.79
	40	0.2479	34	-12.12
	50	0.2665	37	-11.49
	60	0.3355	46	-9.49
	70	0.4224	58	-7.49
	80	0.5317	73	-5.49
*	87	0.6247	86	-4.09
	90	0.5831	80	-4.69
	100	0.5831	80	-4.69
	110	0.5831	80	-4.69
	120	0.5831	80	-4.69
*	129	0.5831	80	-4.69
	130	0.5967	82	-4.49
	140	0.7512	103	-2.49
	150	0.9457	130	-0.49
*	156	1.0000	138	0.00
	160	0.9817	135	-0.16
	170	0.7798	107	-2.16
*	173.4	0.7211	99	-2.84
	180	0.6928	95	-3.19
*	183.3	0.7483	103	-2.52
	190	0.6419	88	-3.85
	200	0.5099	70	-5.85
	210	0.4324	60	-7.28
	220	0.3549	49	-9.00
*	223	0.3317	46	-9.59
	230	0.3317	46	-9.59
	240	0.4176	57	-7.59
	250	0.5257	72	-5.59
	260	0.6618	91	-3.59
*	263.1	0.7107	98	-2.97
	270	0.6062	83	-4.35
	280	0.4815	66	-6.35
	290	0.3825	53	-8.35
	300	0.3038	42	-10.35
*	306	0.2646	36	-11.55
	310	0.2576	35	-11.78
	320	0.2401	33	-12.39
	330	0.2226	31	-13.05
	340	0.2051	28	-13.76
	350	0.1876	26	-14.53
*	355	0.1789	25	-14.95

* indicates a critical azimuth not at a ten degree point

LOUIS A. WILLIAMS, JR. & ASSOCIATES
DECEMBER 1990

TABLE 2

WLHS VS. PROPOSED READING CONTOURS
FOR WLHS FILE BLED820521AW

Bearing from WLHS (Degrees)	WLHS Effective Height (Meters)	WLHS F(50,50) 1 mV/m (km)	Bearing from Proposed to WLHS 1 mV/m (Degrees)	Distance from Proposed to WLHS 1 mV/m (km)	Proposed Effective Height (Meters)	Proposed ERP (kW)	Proposed F(50,10) 100 mV/m (km)	Margin (km)
N202.0E	118.7	11.2	N 76.8E	1.4	71.3	0.244	1.1	0.3
202.5	119.5	11.2	74.4	1.3	71.0	0.219	1.0	0.3
203.0	120.1	11.2	71.7	1.3	67.2	0.193	1.0	0.3
203.5	120.8	11.3	72.1	1.1	67.7	0.197	1.0	0.1
204.0	121.4	11.3	68.5	1.1	63.9	0.167	0.9	0.2
204.5	122.1	11.3	64.4	1.0	62.8	0.138	0.8	0.2
205.0	122.7	11.4	63.5	0.8	61.8	0.132	0.8	0.0
205.5	123.4	11.4	57.9	0.8	53.3	0.102	0.7	0.1
206.0	124.2	11.4	51.2	0.7	39.3	0.075	0.6	0.1
206.5	125.0	11.5	46.7	0.6	32.0	0.068	0.6	0.0
207.0	126.0	11.5	37.4	0.6	33.5	0.059	0.5	0.1
207.5	127.1	11.5	27.2	0.6	41.4	0.050	0.5	0.1
208.0	128.5	11.6	15.3	0.5	71.5	0.041	0.4	0.1
208.2	129.0	11.6	10.4	0.5	78.8	0.037	0.4	0.1
208.4	129.6	11.7	1.0	0.4	88.6	0.032	0.4	0.0
208.6	130.3	11.7	356.3	0.4	96.6	0.032	0.4	0.0
208.8	130.9	11.7	351.9	0.5	95.3	0.034	0.4	0.1
209.0	131.6	11.7	348.0	0.5	90.6	0.037	0.4	0.1
209.5	133.3	11.8	331.3	0.5	72.8	0.049	0.5	0.0
210.0	135.0	11.9	316.6	0.6	65.7	0.061	0.5	0.1
210.5	136.7	12.0	305.4	0.6	54.9	0.072	0.6	0.0
211.0	138.4	12.0	304.6	0.7	55.2	0.075	0.6	0.1
211.5	139.9	12.1	297.5	0.8	58.1	0.104	0.7	0.1
212.0	141.3	12.2	291.9	1.0	46.7	0.134	0.8	0.2
212.5	142.5	12.2	293.1	1.1	50.0	0.127	0.8	0.3
213.0	143.6	12.3	289.1	1.2	41.3	0.153	0.9	0.3

LOUIS A. WILLIAMS, JR. & ASSOCIATES
DECEMBER 1990

TABLE 3

WOBO VS. PROPOSED READING CONTOURS
FOR WOBO FILE BPED-860613MD

Bearing from WOBO (Degrees)	WOBO Effective Height (Meters)	WOBO ERP (kW)	WOBO F(50,50) 1 mV/m (km)	Bearing from Proposed to WOBO 1 mV/m (Degrees)	Distance from Proposed to WOBO 1 mV/m (km)	Proposed Effective Height (Meters)	Proposed ERP (kW)	Proposed F(50,10) 100 mV/m (km)	Margin (km)
N299.0E	183.4	2.87	31.5	N153.7E	3.0	95.8	1.00	1.6	1.4
300.0	186.7	2.93	31.9	148.0	2.4	80.9	0.816	1.6	0.8
301.0	189.4	3.00	32.3	138.0	1.8	65.8	0.515	1.6	0.2
301.2	189.8	3.01	32.4	135.2	1.6	62.6	0.452	1.5	0.1
301.4	190.1	3.02	32.4	131.4	1.6	62.0	0.380	1.4	0.2
301.6	190.4	3.03	32.5	127.8	1.5	59.1	0.340	1.3	0.2
301.7	190.5	3.03	32.5	125.7	1.5	60.1	0.340	1.3	0.2
301.8	190.6	3.03	32.5	123.4	1.5	62.8	0.340	1.3	0.2
302.0	190.7	3.04	32.5	119.1	1.5	69.6	0.340	1.3	0.2
302.2	190.8	3.06	32.6	114.3	1.4	69.2	0.340	1.3	0.1
302.4	190.9	3.07	32.6	109.7	1.4	67.3	0.340	1.3	0.1
302.6	190.9	3.08	32.7	104.2	1.4	63.6	0.340	1.3	0.1
302.8	190.8	3.10	32.7	99.8	1.4	68.1	0.340	1.3	0.1
303.0	190.7	3.11	32.7	95.6	1.4	72.8	0.340	1.3	0.1
303.2	190.6	3.12	32.7	91.8	1.5	68.5	0.340	1.3	0.2
303.4	190.4	3.12	32.7	88.2	1.6	68.1	0.369	1.3	0.3
303.5	190.3	3.13	32.7	86.5	1.6	66.8	0.381	1.4	0.2
303.6	190.2	3.13	32.7	84.9	1.6	65.6	0.354	1.3	0.3
303.8	190.0	3.13	32.7	81.9	1.7	63.9	0.309	1.2	0.5
304.0	189.8	3.14	32.7	79.2	1.8	66.4	0.273	1.2	0.6
305.0	188.3	3.19	32.7	68.8	2.2	64.1	0.169	0.9	1.3
306.0	186.2	3.24	32.7	62.2	2.7	60.3	0.125	0.8	1.9

LOUIS A. WILLIAMS, JR. & ASSOCIATES
DECEMBER 1990

TABLE 4

WNKU VS. PROPOSED READING CONTOURS
FOR WNKU FILE BMPED-841119IG

Bearing from WNKU (Degrees)	WNKU Effective Height (Meters)	WNKU ERP (kW)	WNKU F(50,50) 1 mV/m (km)	Bearing from Proposed to WNKU 1 mV/m (Degrees)	Distance from Proposed to WNKU 1 mV/m (km)	Proposed Effective Height (Meters)	Proposed ERP (kW)	Proposed F(50,10) 10 mV/m (km)	Margin (km)
N345E	115.0	0.941	19.7	N260.1E	8.1	35.9	0.440	2.8	5.3
350	114.4	0.750	18.5	250.1	6.5	43.1	0.278	2.8	3.7
355	107.5	0.635	17.1	232.2	5.5	108.0	0.122	3.5	2.0
0	98.9	0.529	15.5	210.3	5.7	94.7	0.185	3.7	2.0
5	92.2	0.389	13.8	194.1	6.9	92.9	0.341	4.3	2.6
10	93.3	0.389	13.9	183.9	6.8	88.4	0.546	4.7	2.1
15	97.8	0.389	14.2	173.2	6.8	102.9	0.525	5.0	1.8
20	102.5	0.389	14.6	162.4	7.0	105.4	0.863	5.8	1.2
25	116.1	0.389	15.6	149.3	7.3	82.9	0.866	5.1	2.2
30	130.4	0.529	18.1	127.5	7.8	59.0	0.340	3.4	4.4

Bearing from WNKU (Degrees)	WNKU Effective Height (Meters)	WNKU ERP (kW)	WNKU F(50,10) 10 mV/m (km)	Bearing from Proposed to WNKU 10 mV/m (Degrees)	Distance from Proposed to WNKU 10 mV/m (km)	Proposed Effective Height (Meters)	Proposed ERP (kW)	Proposed F(50,50) 1 mV/m (km)	Margin (km)
N20E	102.5	0.389	4.6	N184.6E	16.2	85.5	0.528	14.3	1.9
25	116.1	0.389	4.9	182.9	16.0	92.4	0.549	15.1	0.9
27.5	126.1	0.389	5.1	181.9	15.9	96.5	0.524	15.2	0.7
30	130.4	0.529	5.7	180.1	15.5	102.6	0.482	15.4	0.1
35	130.6	0.635	5.9	178.1	15.6	100.1	0.491	15.3	0.3
40	131.7	0.750	6.2	175.9	15.7	100.1	0.505	15.4	0.3
45	127.4	0.941	6.5	173.8	15.9	102.9	0.518	15.8	0.1
50	115.3	1.229	6.6	172.3	16.3	102.4	0.547	16.0	0.3
55	101.3	1.470	6.5	171.6	16.9	102.0	0.565	16.1	0.8
60	88.8	1.825	6.4	171.2	17.4	101.6	0.575	16.1	1.3

LOUIS A. WILLIAMS, JR. & ASSOCIATES
DECEMBER 1990

TABLE 5

WFPL VS. PROPOSED READING CONTOURS
FOR WFPL FILE BLED7838

Bearing from WFPL (Degrees)	WFPL Effective Height (Meters)	WFPL F(50,10) 0.1 mV/m (km)	Bearing from Proposed to WFPL 0.1 mV/m (Degrees)	Distance from Proposed to WFPL 0.1 mV/m (km)	Proposed Effective Height (Meters)	Proposed ERP (kW)	Proposed F(50,50) 1 mV/m (km)	Margin (km)
N44.6E	102.5	146.8	N246.3E	12.1	59.5	0.233	10.0	2.1
44.8	102.6	146.8	244.0	11.9	71.3	0.210	10.5	1.4
45.0	102.7	146.9	241.7	11.7	84.8	0.189	11.1	0.6
45.2	102.8	146.9	239.3	11.6	93.1	0.169	11.3	0.3
45.4	102.8	146.9	236.8	11.5	96.5	0.151	11.2	0.3
45.6	102.9	146.9	234.3	11.4	101.6	0.134	11.2	0.2
45.8	102.9	146.9	231.7	11.3	109.1	0.119	11.2	0.1
46.0	102.9	146.9	229.1	11.3	114.5	0.110	11.2	0.1
46.2	102.9	146.9	226.5	11.3	115.9	0.110	11.3	0.0
46.4	102.9	146.9	223.9	11.3	112.1	0.110	11.1	0.2
46.6	102.9	146.9	221.3	11.3	108.2	0.119	11.2	0.1
46.8	102.8	146.9	218.7	11.4	103.9	0.133	11.3	0.1
47.0	102.8	146.9	216.2	11.5	98.3	0.148	11.2	0.3
47.2	102.7	146.9	213.7	11.6	95.9	0.163	11.4	0.2
47.4	102.6	146.8	211.4	11.8	94.9	0.178	11.6	0.2
47.6	102.4	146.8	209.1	12.0	94.7	0.193	11.8	0.2
47.8	102.2	146.8	206.8	12.2	95.4	0.209	12.0	0.2
48.0	102.0	146.7	204.8	12.5	95.3	0.224	12.2	0.3
48.2	101.7	146.7	202.7	12.7	96.5	0.239	12.5	0.2
48.4	101.4	146.6	200.8	13.0	98.2	0.254	12.8	0.2
48.6	101.1	146.6	198.9	13.3	98.4	0.274	13.1	0.2
48.8	100.7	146.5	197.2	13.6	97.4	0.296	13.2	0.4
49.0	100.3	146.4	195.7	14.0	95.7	0.317	13.3	0.7
49.2	99.9	146.4	194.0	14.3	92.7	0.343	13.4	0.9
49.4	99.4	146.3	192.6	14.7	88.0	0.366	13.3	1.4
49.6	98.9	146.2	191.3	15.0	83.8	0.388	13.1	1.9

TABLE 6
Louis A. Williams, Jr. and Associates
Cincinnati, Ohio
December, 1990
Terrain Averaging Program
30 Second Database

Job Title: Proposed Site
RCAMSL (m): 288

Latitude: 39-13-23
Longitude: 84-25-57

Bearing (Deg-true)	3-16 km Avg. Terrain Elev. (m)	Height Above Average Terrain (m)
1.0	199.4	88.6
10.4	209.2	78.8
15.3	216.5	71.5
27.2	246.6	41.4
37.4	254.5	33.5
46.7	256.0	32.0
51.2	248.7	39.3
57.9	234.7	53.3
62.2	227.7	60.3
63.5	226.2	61.8
64.4	225.2	62.8
68.5	224.1	63.9
68.8	223.9	64.1
71.7	220.8	67.2
72.1	220.3	67.7
74.4	217.0	71.0
76.8	216.7	71.3
79.2	221.6	66.4
81.9	224.1	63.9
84.9	222.4	65.6
86.5	221.2	66.8
88.2	219.9	68.1
91.8	219.5	68.5
95.6	215.2	72.8
99.8	219.9	68.1
104.2	224.4	63.6
109.7	220.7	67.3
114.3	218.8	69.2
119.1	218.4	69.6
123.4	225.2	62.8
125.7	227.9	60.1
127.5	229.0	59.0
127.8	228.9	59.1
131.4	226.0	62.0
135.2	225.4	62.6
138.0	222.2	65.8
148.0	207.1	80.9
149.3	205.1	82.9
153.7	192.2	95.8
162.4	182.6	105.4
171.2	186.4	101.6
171.6	186.0	102.0
172.3	185.6	102.4
173.2	185.1	102.9
173.8	185.1	102.9
175.9	187.9	100.1
178.1	187.9	100.1

TABLE 6 (Continued)
Louis A. Williams, Jr. and Associates
Cincinnati, Ohio
December, 1990
Terrain Averaging Program
30 Second Database

Job Title: Proposed Site
RCAMSL (m): 288

Latitude: 39-13-23
Longitude: 84-25-57

Bearing (Deg-true)	3-16 km Avg. Terrain Elev. (m)	Height Above Average Terrain (m)
180.1	185.4	102.6
181.9	191.5	96.5
182.9	195.6	92.4
183.9	199.6	88.4
184.6	202.5	85.5
191.3	204.2	83.8
192.6	200.0	88.0
194.0	195.3	92.7
194.1	195.1	92.9
195.7	192.3	95.7
197.2	190.6	97.4
198.9	189.6	98.4
200.8	189.8	98.2
202.7	191.5	96.5
204.8	192.7	95.3
206.8	192.6	95.4
209.1	193.3	94.7
210.3	193.3	94.7
211.4	193.1	94.9
213.7	192.1	95.9
216.2	189.7	98.3
218.7	184.1	103.9
221.3	179.8	108.2
223.9	175.9	112.1
226.5	172.1	115.9
229.1	173.5	114.5
231.7	178.9	109.1
232.2	180.0	108.0
234.3	186.4	101.6
236.8	191.5	96.5
239.3	194.9	93.1
241.7	203.2	84.8
244.0	216.7	71.3
246.3	228.5	59.5
250.1	244.9	43.1
260.1	252.1	35.9
289.1	246.7	41.3
291.9	241.3	46.7
293.1	238.0	50.0
297.5	229.9	58.1
304.6	232.8	55.2
305.4	233.1	54.9
316.6	222.3	65.7
331.3	215.2	72.8
348.0	197.4	90.6
351.9	192.7	95.3
356.3	191.4	96.6

TABLE 7
Louis A. Williams, Jr. and Associates
Cincinnati, Ohio
December, 1990
Terrain Averaging Program
30 Second Database

Job Title: WLHS
RCAMSL (m): 338

Latitude: 39-19-10
Longitude: 84-22-04

Bearing (Deg-true)	3-16 km Avg. Terrain Elev. (m)	Height Above Average Terrain (m)
202.0	219.3	118.7
202.5	218.5	119.5
203.0	217.9	120.1
203.5	217.2	120.8
204.0	216.6	121.4
204.5	215.9	122.1
205.0	215.3	122.7
205.5	214.6	123.4
206.0	213.8	124.2
206.5	213.0	125.0
207.0	212.0	126.0
207.5	210.9	127.1
208.0	209.5	128.5
208.2	209.0	129.0
208.4	208.4	129.6
208.6	207.7	130.3
208.8	207.1	130.9
209.0	206.4	131.6
209.5	204.7	133.3
210.0	203.0	135.0
210.5	201.3	136.7
211.0	199.6	138.4
211.5	198.1	139.9
212.0	196.7	141.3
212.5	195.5	142.5
213.0	194.4	143.6

TABLE 8
Louis A. Williams, Jr. and Associates
Cincinnati, Ohio
November, 1990
Terrain Averaging Program
30 Second Database

Job Title: WOBO
RCAMSL (m): 402

Latitude: 39-03-43
Longitude: 84-05-50

Bearing (Deg-true)	3-16 km Avg. Terrain Elev. (m)	Height Above Average Terrain (m)
299.0	218.6	183.4
300.0	215.3	186.7
301.0	212.6	189.4
301.2	212.2	189.8
301.4	211.9	190.1
301.6	211.6	190.4
301.7	211.5	190.5
301.8	211.4	190.6
302.0	211.3	190.7
302.2	211.2	190.8
302.4	211.1	190.9
302.6	211.1	190.9
302.8	211.2	190.8
303.0	211.3	190.7
303.2	211.4	190.6
303.4	211.6	190.4
303.5	211.7	190.3
303.6	211.8	190.2
303.8	212.0	190.0
304.0	212.2	189.8
305.0	213.7	188.3
306.0	215.8	186.2

TABLE 9
Louis A. Williams, Jr. and Associates
Cincinnati, Ohio
November, 1990
Terrain Averaging Program
30 Second Database

Job Title: WNKU
RCAMSL (m): 302

Latitude: 39-02-21
Longitude: 84-27-57

Bearing (Deg-true)	3-16 km Avg. Terrain Elev. (m)	Height Above Average Terrain (m)
0.0	203.1	98.9
5.0	209.8	92.2
10.0	208.7	93.3
15.0	204.2	97.8
20.0	199.5	102.5
25.0	185.9	116.1
27.5	175.9	126.1
30.0	171.6	130.4
35.0	171.4	130.6
40.0	170.3	131.7
45.0	174.6	127.4
50.0	186.7	115.3
55.0	200.7	101.3
60.0	213.2	88.8
345.0	187.0	115.0
350.0	187.6	114.4
355.0	194.5	107.5

TABLE 10
Louis A. Williams, Jr. and Associates
Cincinnati, Ohio
December, 1990
Terrain Averaging Program
30 Second Database

Job Title: WFPL
RCAMSL (m): 226

Latitude: 38-14-40
Longitude: 85-45-27

Bearing (Deg-true)	3-16 km Avg. Terrain Elev. (m)	Height Above Average Terrain (m)
44.6	123.5	102.5
44.8	123.4	102.6
45.0	123.3	102.7
45.2	123.2	102.8
45.4	123.2	102.8
45.6	123.1	102.9
45.8	123.1	102.9
46.0	123.1	102.9
46.2	123.1	102.9
46.4	123.1	102.9
46.6	123.1	102.9
46.8	123.2	102.8
47.0	123.2	102.8
47.2	123.3	102.7
47.4	123.4	102.6
47.6	123.6	102.4
47.8	123.8	102.2
48.0	124.0	102.0
48.2	124.3	101.7
48.4	124.6	101.4
48.6	124.9	101.1
48.8	125.3	100.7
49.0	125.7	100.3
49.2	126.1	99.9
49.4	126.6	99.4
49.6	127.1	98.9

MIAMI UNIVERSITY

Office of the President
Roudebush Hall
Oxford, Ohio 45056

December 19, 1990

Federal Communications Commission
1919 M Street, N.W.
Washington, D. C. 20554

Dear Sir or Madam:

The attached information constitutes a corrective amendment to File# BPED 890530 MA, an application for an FM educational radio station in Reading, Ohio.

Thank you for your assistance.

Sincerely,

Paul G. Pearson
President

js

Attachment